

FIG. 1

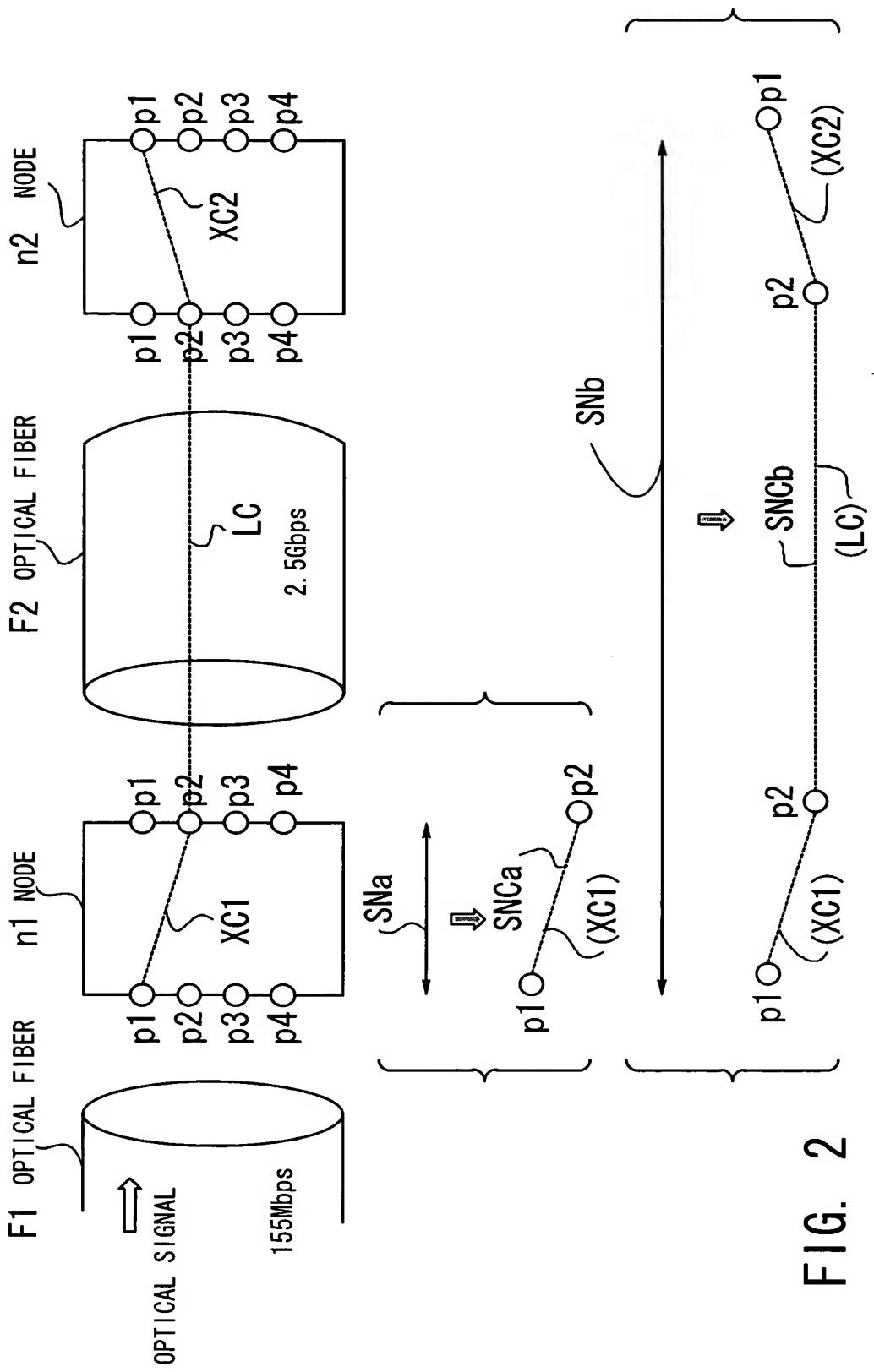
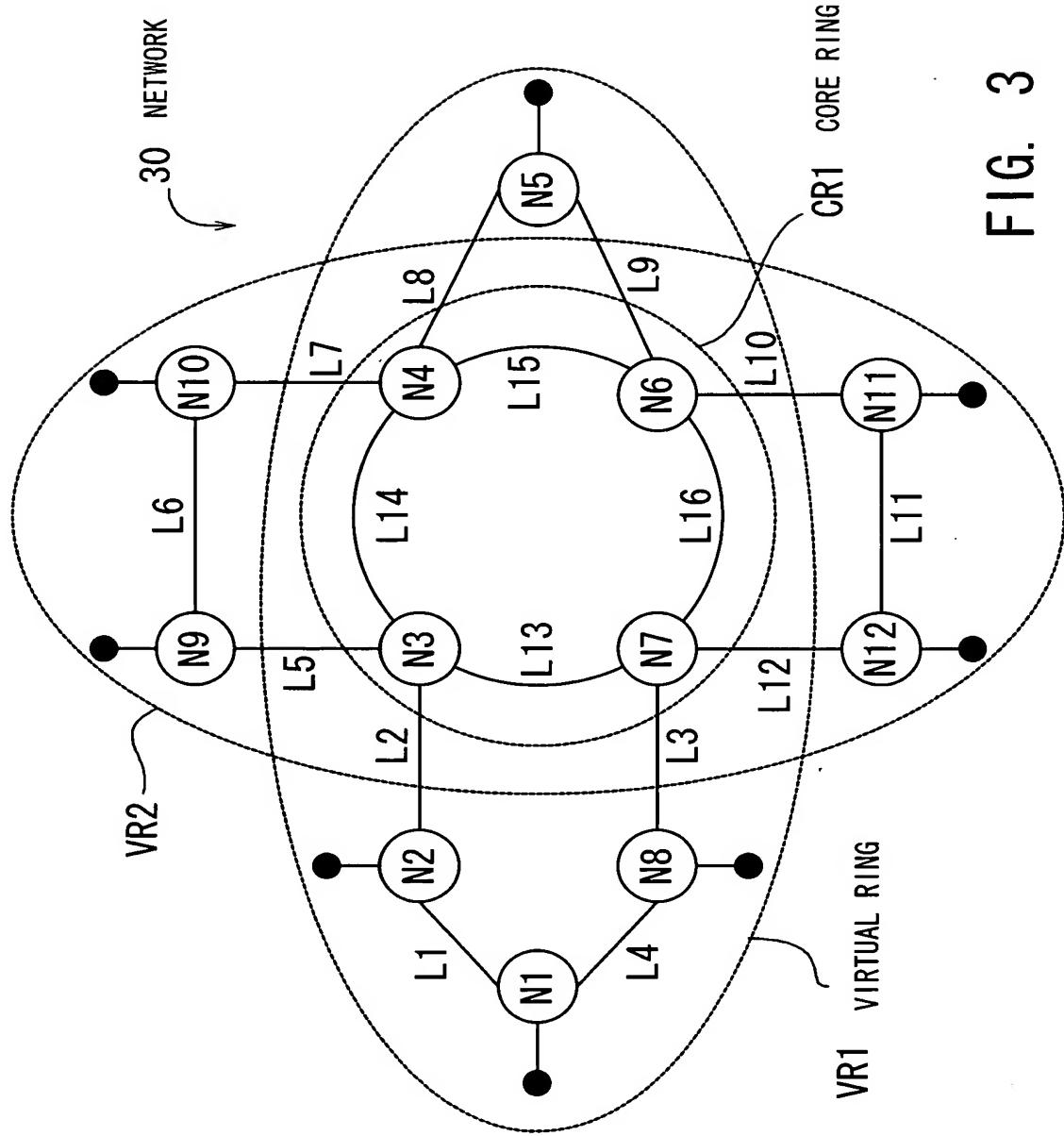


FIG. 3



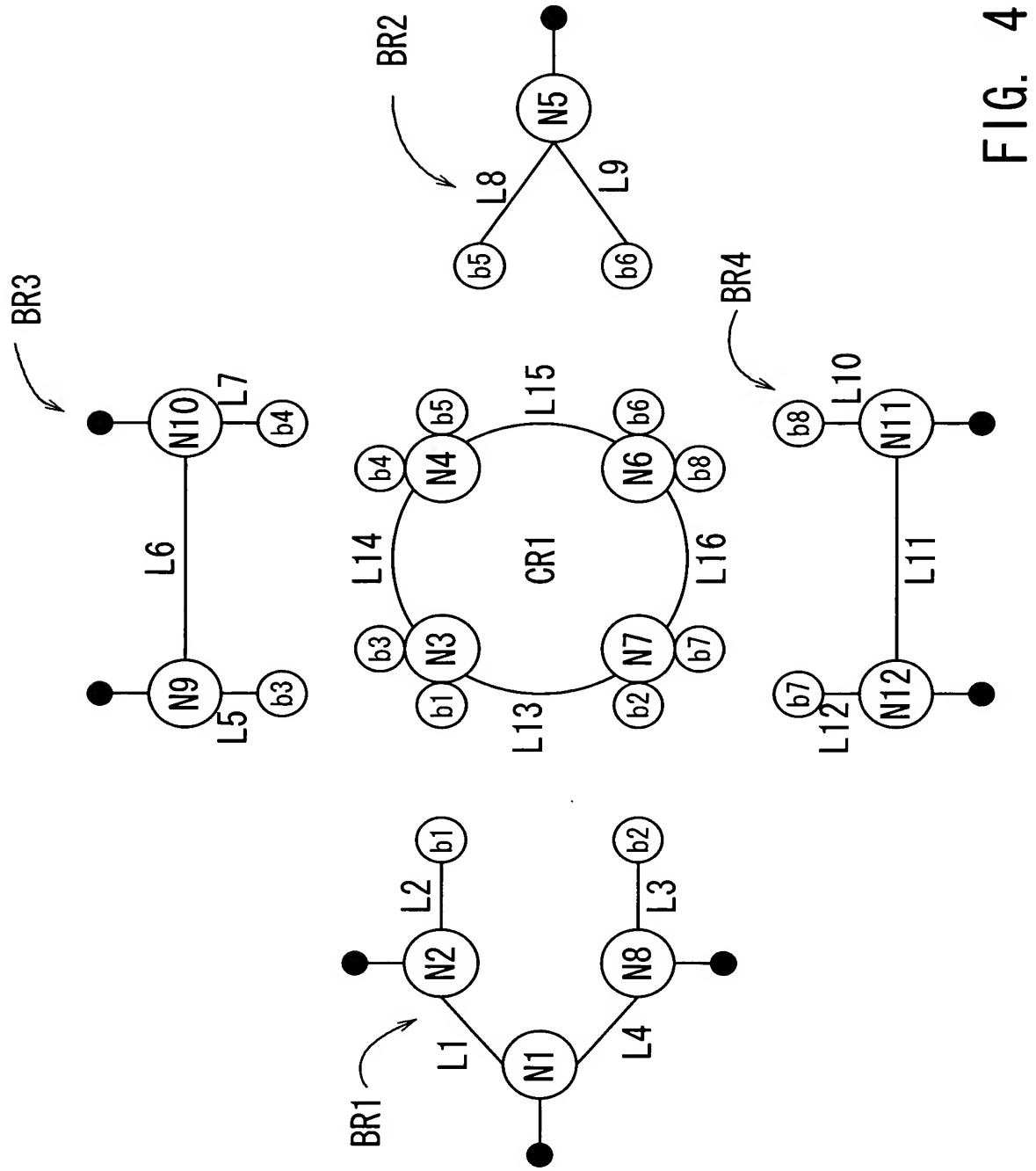


FIG. 4

T1 BRANCH INFORMATION TABLE



| BRANCH NUMBER | BRANCH-STRUCTURE INFORMATION       | CONNECTED-CORE-RING NUMBER | LINK BANDWIDTH | SNC BANDWIDTH |
|---------------|------------------------------------|----------------------------|----------------|---------------|
| BR 1          | b1, L2, N2, L1, N1, L4, N8, L3, b2 | CR 1                       | 150M           | 1 . 5M        |
| BR 2          | b5, L8, N5, L9, b6                 | CR 1                       | 150M           | 1 . 5M        |
| BR 3          | b3, L5, N9, L6, N10, L7, b4        | CR 1                       | 150M           | 1 . 5M        |
| BR 4          | b8, L10, N11, L11, N12, L12, b7    | CR 1                       | 150M           | 1 . 5M        |
|               |                                    |                            |                |               |
|               |                                    |                            |                |               |
|               |                                    |                            |                |               |

FIG. 5

T2 CORE INFORMATION TABLE

| CORE-RING NUMBER | CORE-RING-STRUCTURE INFORMATION    | LINK BANDWIDTH | SNC BANDWIDTH |
|------------------|------------------------------------|----------------|---------------|
| CR 1             | N3, L14, N4, L15, N6, L16, N7, L13 | 2. 4 G         | 150 M         |
|                  |                                    |                |               |
|                  |                                    |                |               |
|                  |                                    |                |               |

FIG. 6

T3 CONNECTION INFORMATION TABLE

| CORE-RING NUMBER | NODE NUMBER | BRANCH CONNECTION POINT | CONNECTED-LINK NUMBER | CONNECTED-BRANCH NUMBER |
|------------------|-------------|-------------------------|-----------------------|-------------------------|
| CR 1             | N 3         | b 1                     | L 2                   | BR 1                    |
|                  |             | b 3                     | L 5                   | BR 3                    |
|                  | N 4         | b 4                     | L 7                   | BR 3                    |
|                  |             | b 5                     | L 8                   | BR 2                    |
|                  | N 6         | b 6                     | L 9                   | BR 2                    |
|                  |             | b 8                     | L 10                  | BR 4                    |
|                  | N 7         | b 7                     | L 12                  | BR 4                    |
|                  |             | b 2                     | L 3                   | BR 1                    |
|                  |             |                         |                       |                         |

FIG. 7

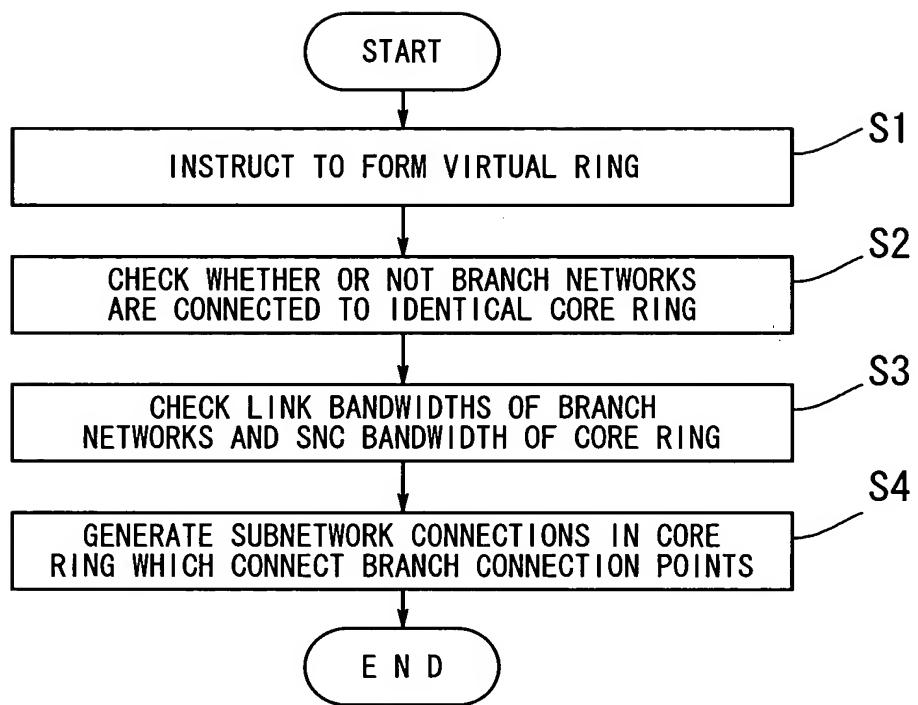


FIG. 8

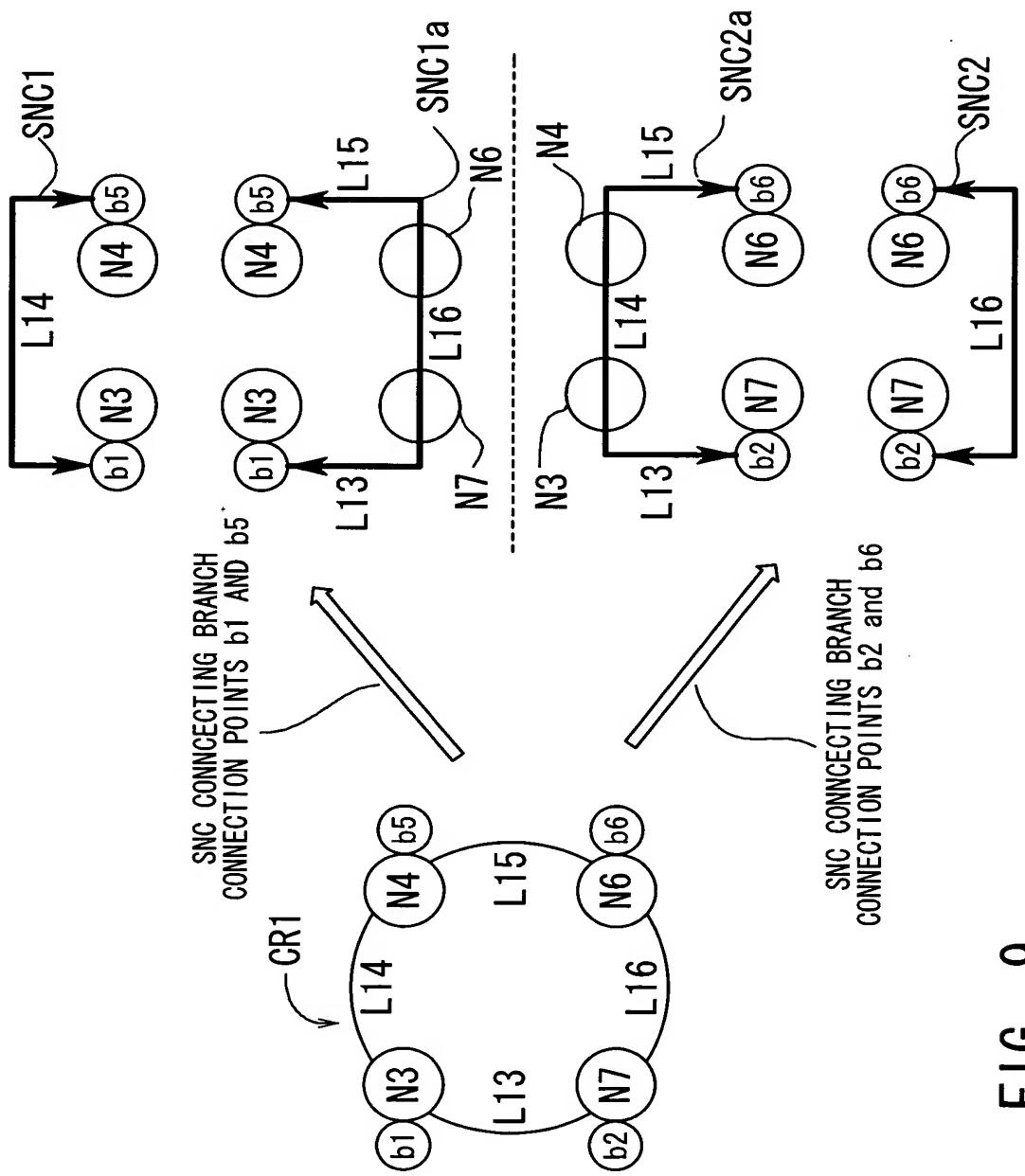
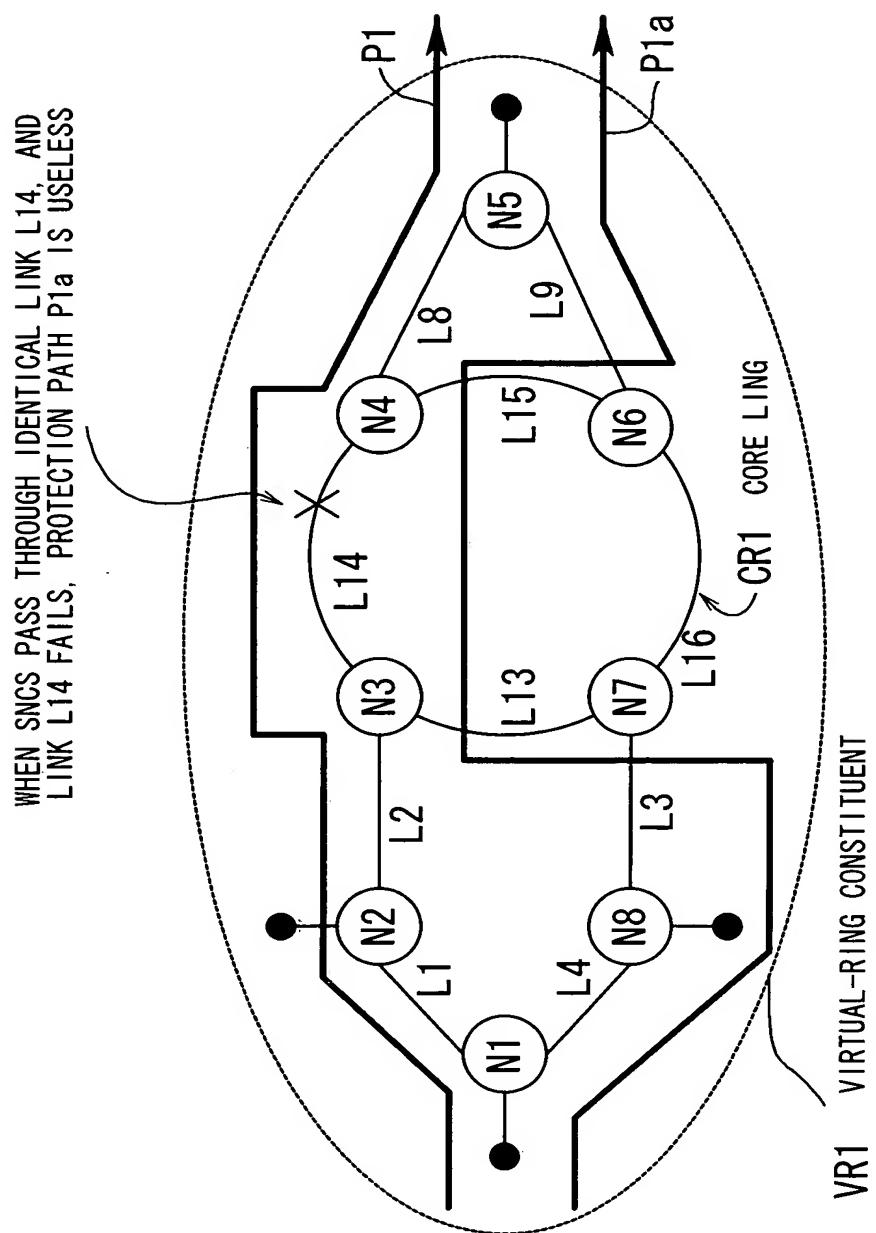


FIG. 9

FIG. 10



T4 VIRTUAL-NETWORK INFORMATION TABLE



| VIRTUAL-RING NUMBER | VIRTUAL-RING CONSTITUENT |
|---------------------|--------------------------|
| VR 1                | BR 1, BR 2               |
|                     |                          |
|                     |                          |

FIG. 11

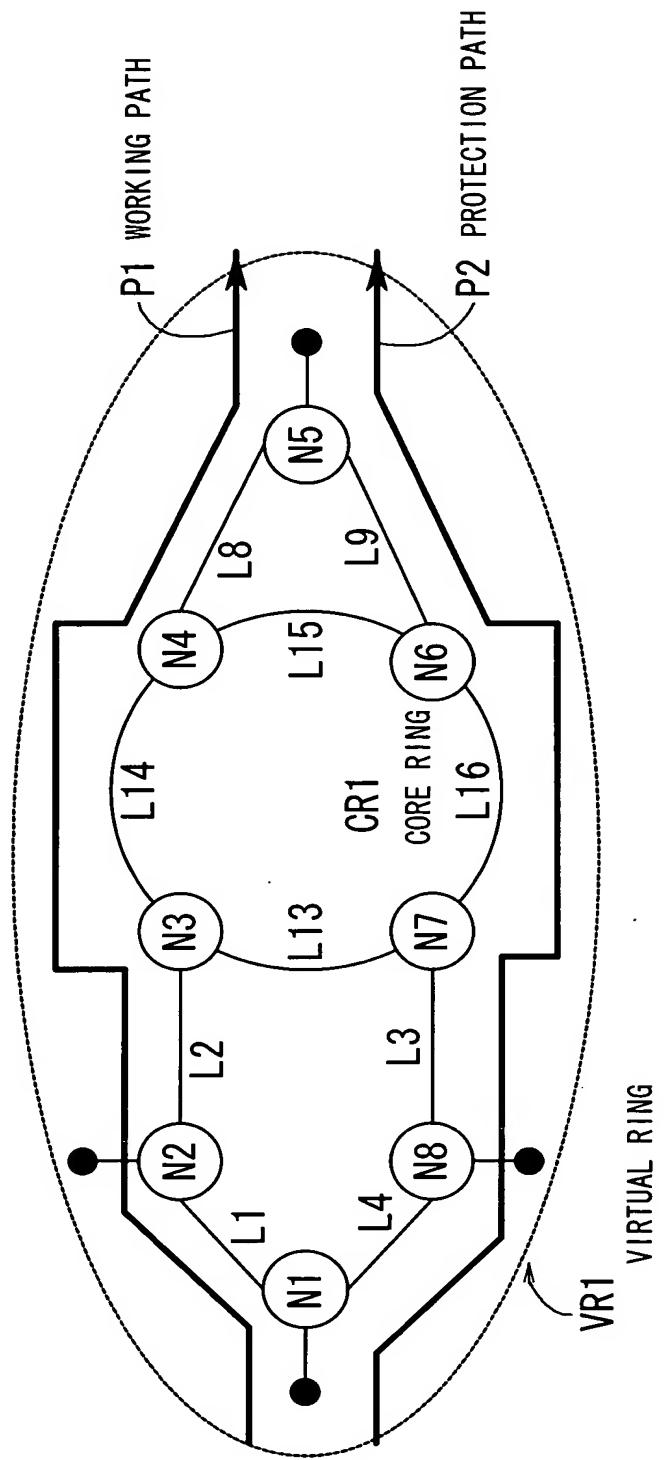


FIG. 12

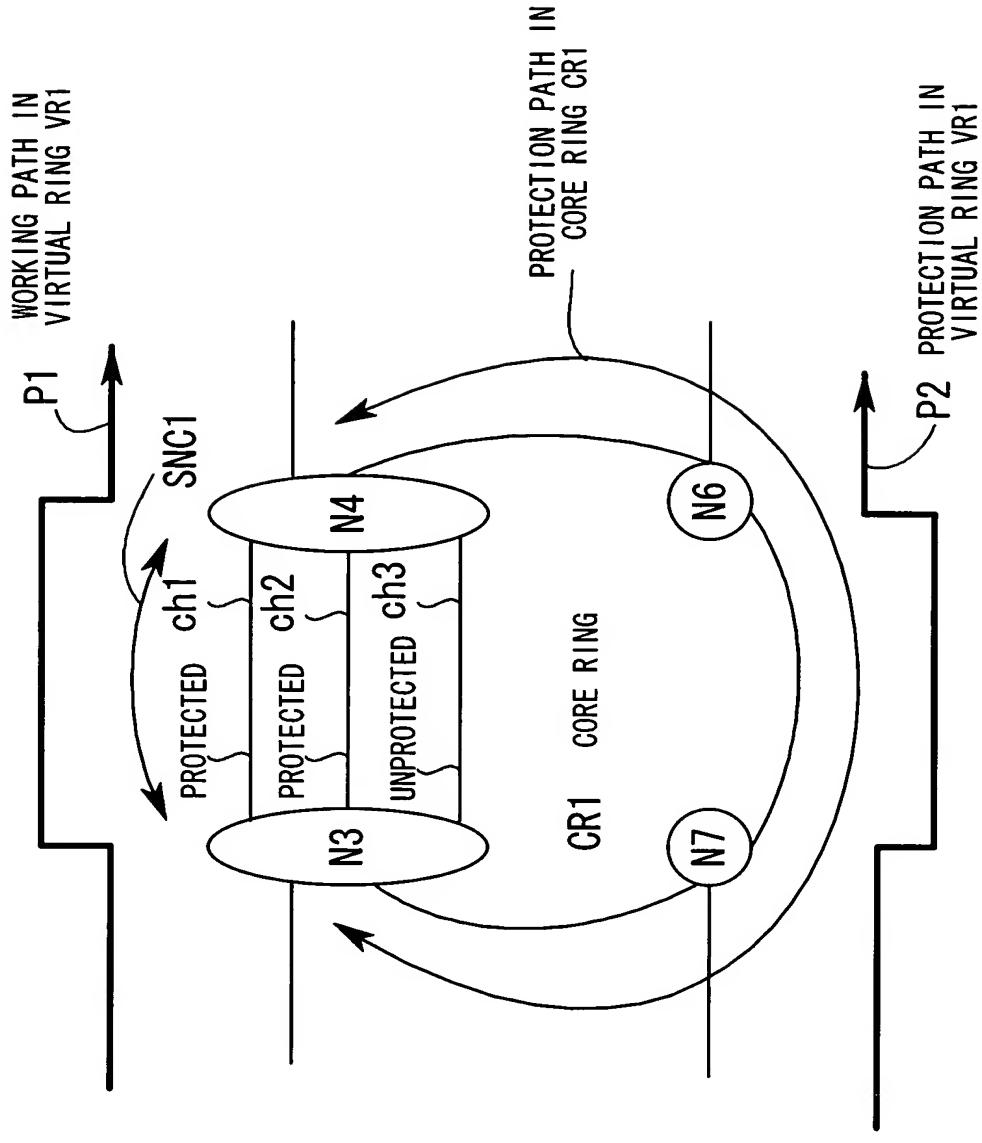


FIG. 13

T5 PROTECTION INFORMATION TABLE

| LINK NUMBER | CHANNEL NUMBER | PROTECTION INFORMATION |
|-------------|----------------|------------------------|
| L 1 4       | c h 1          | PROTECTED              |
|             | c h 2          | PROTECTED              |
|             | c h 3          | UNPROTECTED            |
|             |                |                        |
|             |                |                        |

FIG. 14

FIG. 15

T6 PATH INFORMATION TABLE

| PATH NUMBER | WORKING-PATH INFORMATION | PROTECTION-PATH INFORMATION | SELECTED SYSTEM |
|-------------|--------------------------|-----------------------------|-----------------|
| P 1         | L 1, L 2, L 14, L 8      |                             | WORKING         |
| P 2         |                          | L 4, L 3, L 16, L 9         | PROTECTION      |
|             |                          |                             |                 |

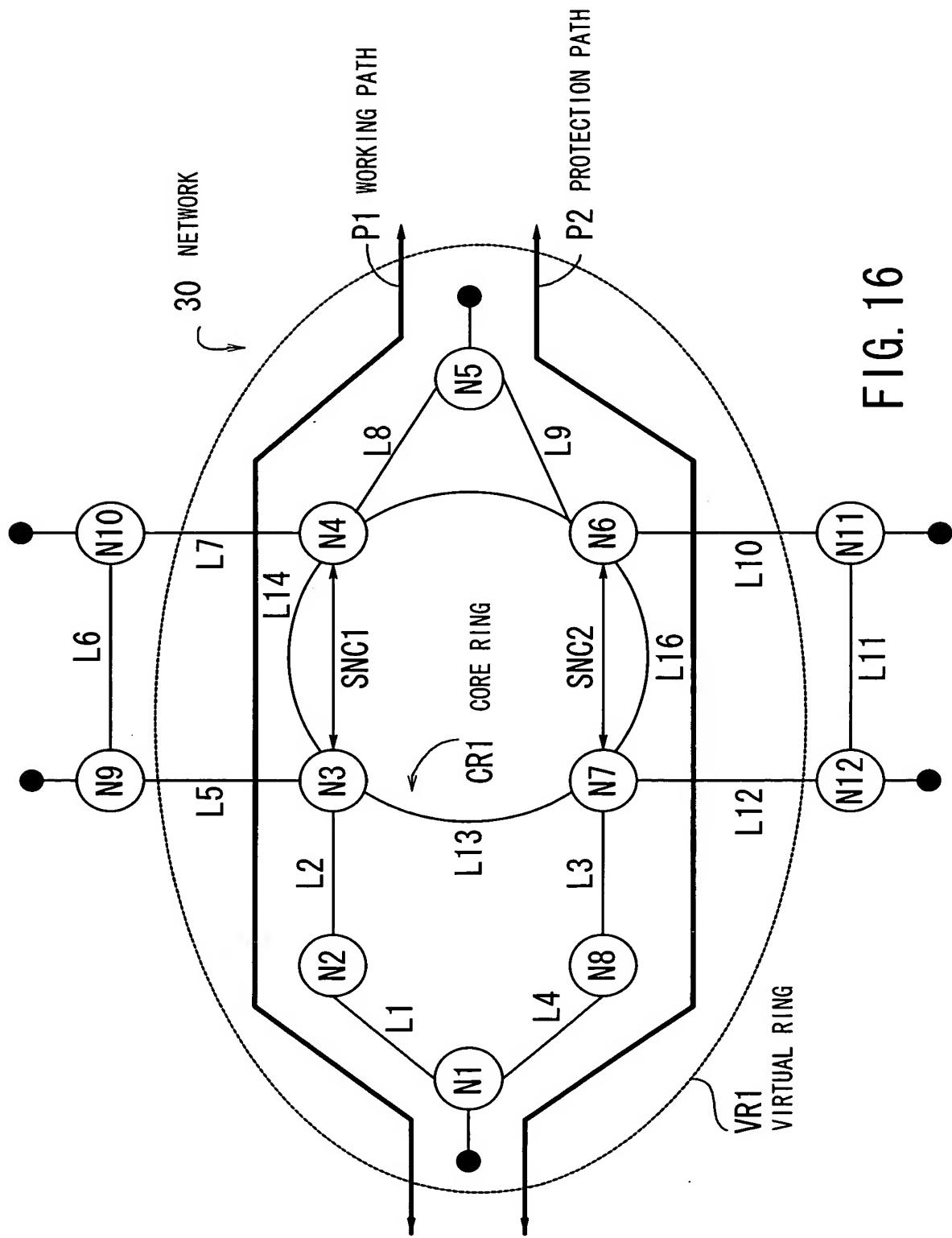


FIG. 16

T7 SNC INFORMATION TABLE

| S N C<br>NUMBER | STRUCTURE<br>INFORMATION | VIRTUAL-LINE NUMBER |
|-----------------|--------------------------|---------------------|
| S N C 1         | b1, N3, L14, N4, b5      | V L 1               |
|                 |                          |                     |
|                 |                          |                     |

FIG. 17

FIG. 18

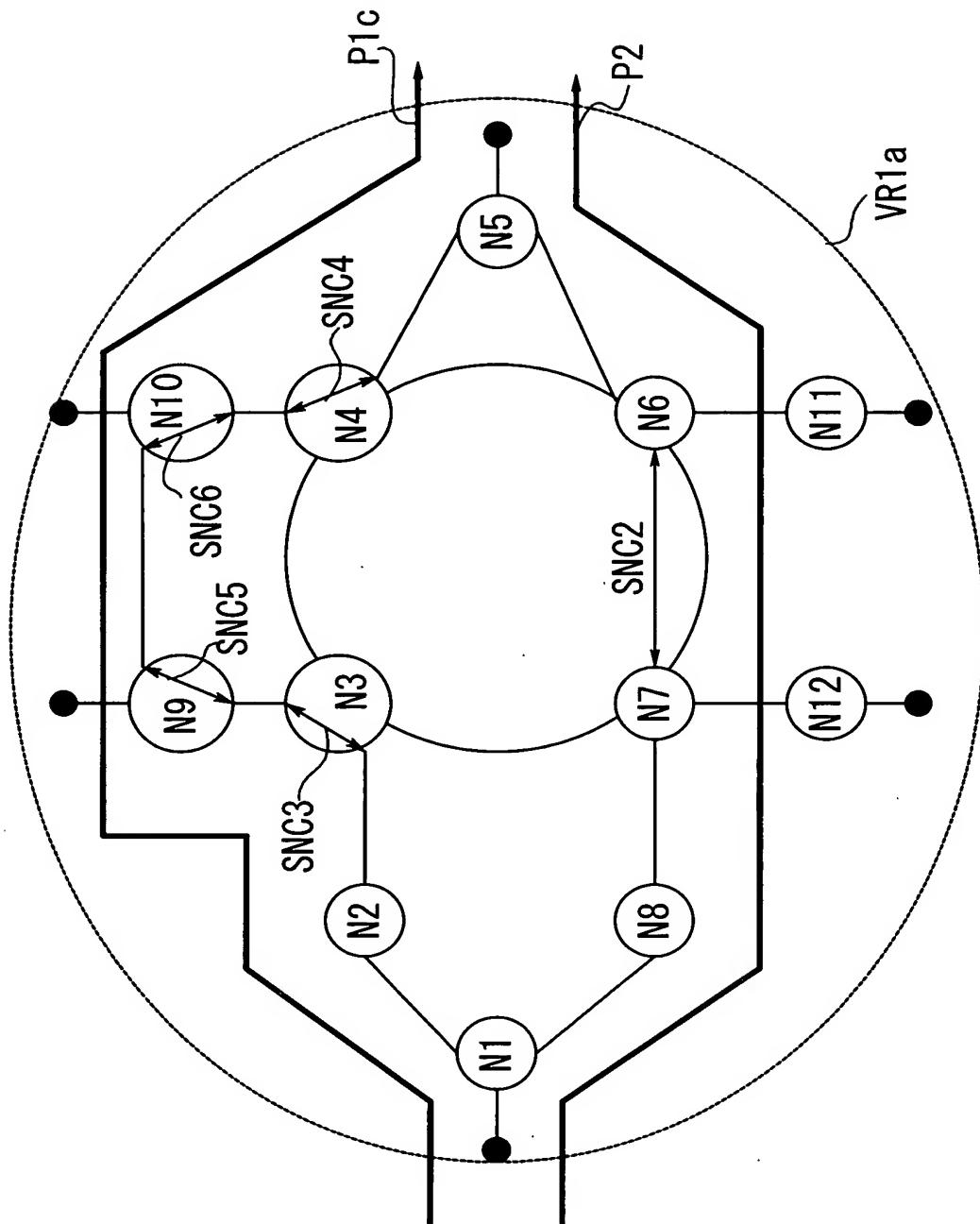
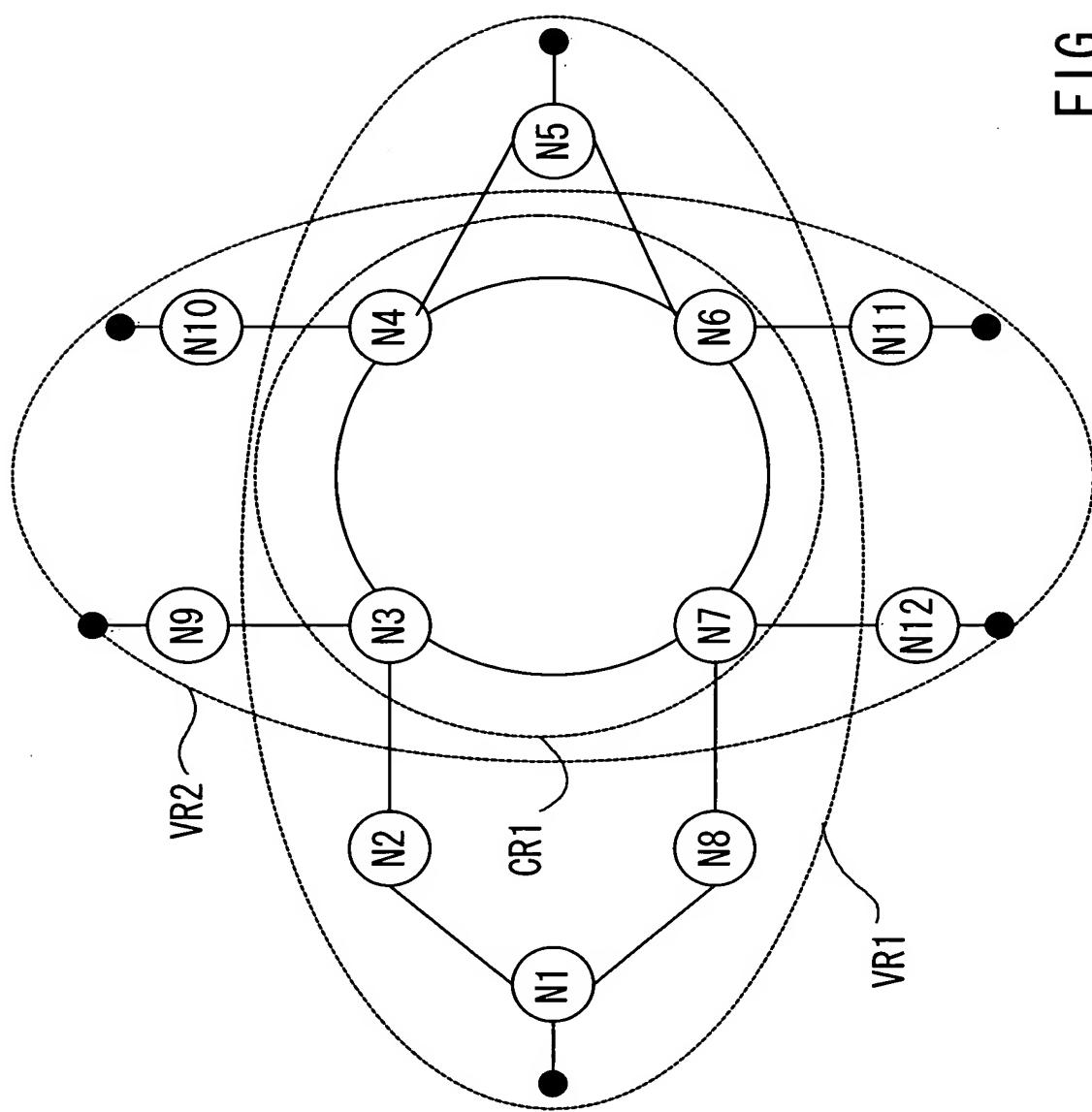


FIG. 19



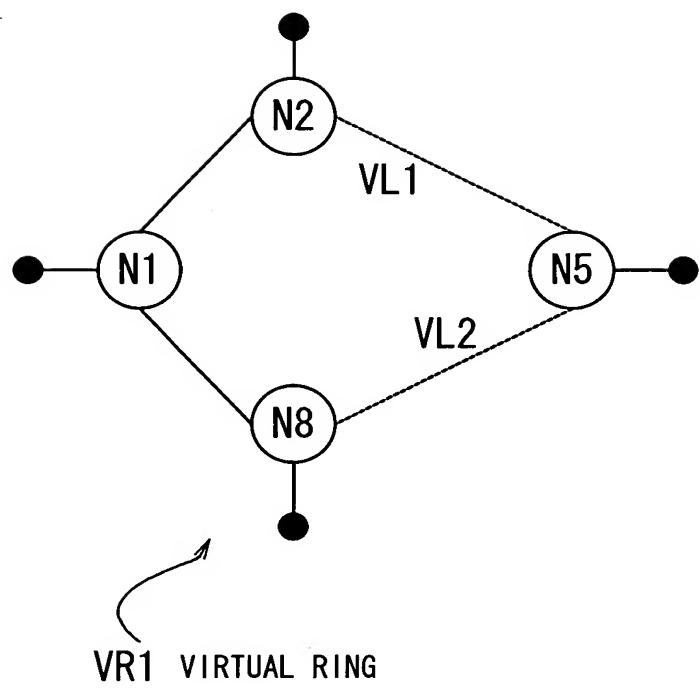


FIG. 20

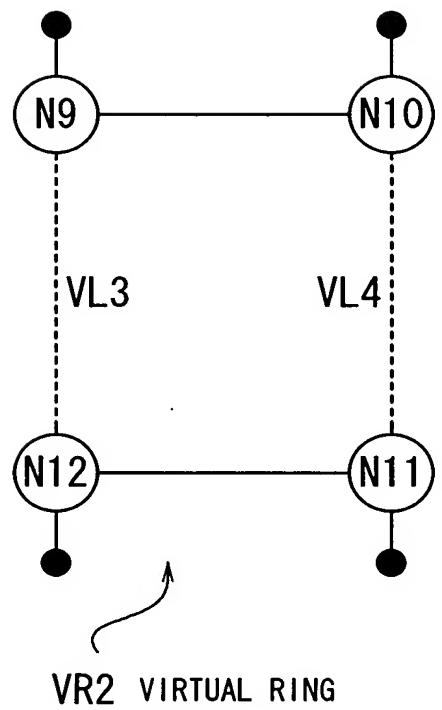
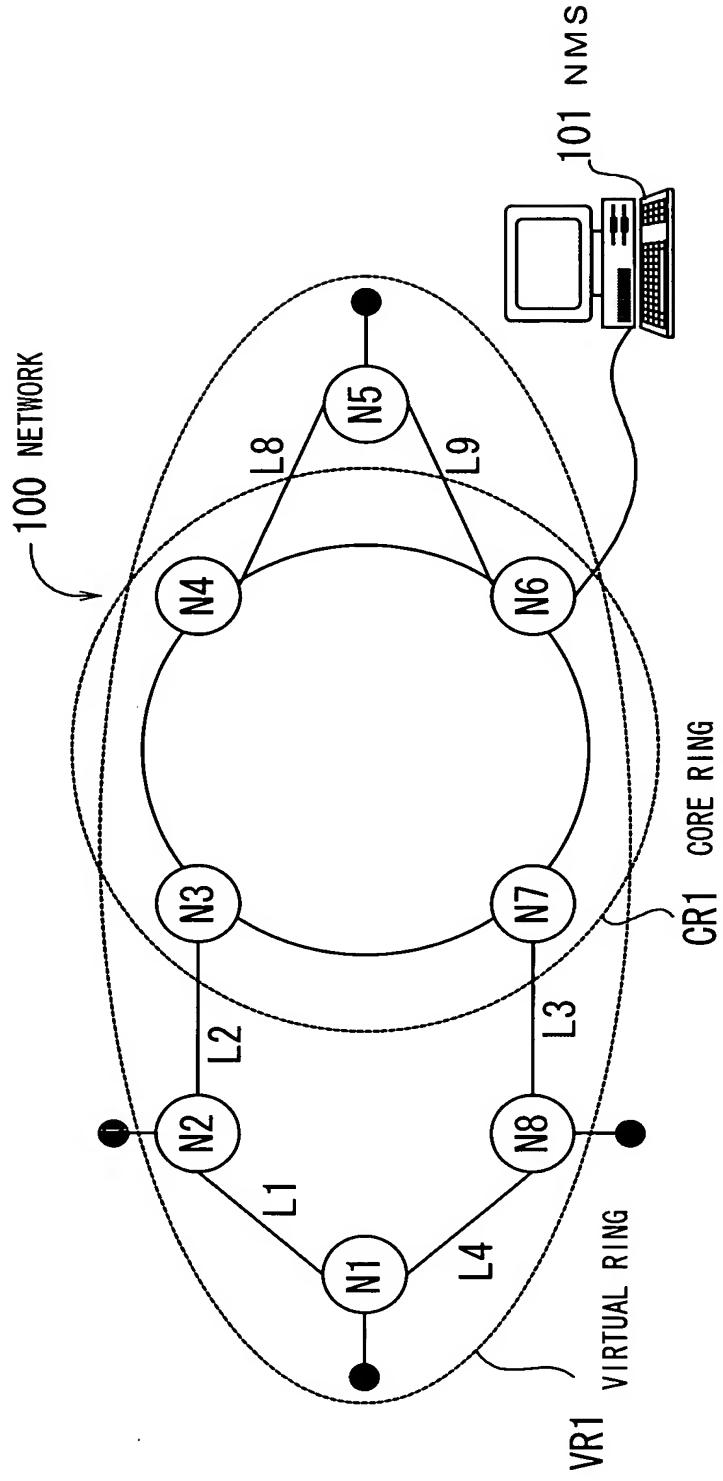


FIG. 21

T8 VIRTUAL-LINE INFORMATION TABLE

| VIRTUAL-LINE NUMBER | STRUCTURE INFORMATION |
|---------------------|-----------------------|
| V L 1               | L2, SNC1, L8          |
| V L 2               | L3, SNC2, L9          |
|                     |                       |

FIG. 22



PRIOR ART  
FIG. 23